

## REFERENCIAS

- Alonso, E.E., Gens, A. & Josa, A. 1990. A constitutive model for partially saturated soils. *Géotechnique*, **40**, 405-430.
- Alonso, E.E., Gens, A., Lloret, A. 1991. Double structure model for the prediction of long-term movements in expansive materials. *Computer Methods and Advances in Geomechanics* (Beer, Booker, Carter, ed.), Balkema, Rotterdam, **1**: 541-548.
- Alonso, E.E., Gens, A. & Gehling, W. 1994. Elastoplastic model for unsaturated expansive soils. *3<sup>rd</sup> Conf. Num. Meth. Geotech. Engng*, 11-18.
- Alonso, E.E. 1998. Modelling expansive soil behaviour. *Second International Conference on Unsaturated Soils*. Beijing, China, Vol.**1**, 37-70.
- Alonso, E.E., Vaunat, J. & Gens, A. 1999. Modelling the mechanical behaviour of expansive clays. *Engineering Geology*, **54**, 173-183.
- Anderson, G. & Crerar, D. 1993. *Thermodynamics in Geochemistry – The Equilibrium Model*. Oxford University Press, New York, 588 pp.
- Appelo, C. & Postma, D. 1993. *Geochemistry Groundwater and Pollution*. Balkema, Rotterdam, 536 pp.
- Apelo, C. 1994. Cation and proton exchange, pH variations, and carbonate reactions in a freshening aquifer. *Water Resources Research*, **30**, 10, 2793-2805.
- Atkinson, G. & Mecik, M. 1997. The chemistry of scale prediction. *Journal of Petroleum Science & Engineering*, **17**, 113-121.
- Ayora, C., Samper, J. & Xu, T. 1995. Reactive solute transport modelling: problem statement and hydrochemical model. *VI Simposio de Hidrogeología*. Sevilla, España, 769-783.
- Bailey, B., Crabtree, M., Tyrie, J., Elphick, J., Kuchuk, F., Romano, C. & Roodhart, L. Water Control. *Oilfield Review*, Spring 2000, 30-51.
- Barbour, S.L. & Fredlung, D.G. 1989. Mechanisms of osmotic flow and volume change in clay soils. *Canadian Geotechnical Journal*, **26**, 551-562.

- Barbour, S.L. & Yang, N. 1993. A review of the influence of clay-brine interactions on the geotechnical properties of Ca-montmorillonitic calyey soils from western Canada. *Canadian Geotechnical Journal*, **30**, 920-934.
- Bear, J. 1972. *Dynamics of Fluids in Porous Media*. Dover, 164 pp.
- Bertero, L., Chierici, G.L., Gottardi, G., Mesini, E. & Mormino, G. 1988. Chemical equilibrium models: their use in simulating the injection of incompatible waters. *Society Petroleum Engineers. Reservoir Eng.*, 288-294.
- Bethke, C. M. 1996. *Geochemical Reaction Modeling*. Oxford University Press, 397 pp. ISBN 0-19-509475-1.
- Blyth, F.G.H. & de Freitas, M.H. 1984. *A Geology for Engineers*. Seventh Edition. Edward Arnold Publ. 325 pp. ISBN: 0-7131-2882-8.
- Bolt, G. 1956. Physico-chemical analysis of the compressibility of pure clays. *Geotechnique*, **6**, 2, 86-93.
- de Capitani, C. & Brown, T.H. 1987. The computation of chemical equilibrium in complex systems containing non-ideal solutions. *Geochimica et Cosmochimica Acta*, **51**, 2639-2652.
- Carrera, J. 1991. Hidrogeología de medios poco permeables. Memoria XXV Aniversario CIHS, 47-67.
- Carrera, J. & Galarza, G. 1993. Transporte de solutos: 2. Métodos de solución. *La zona no saturada y la contaminación de las aguas subterráneas. Teoría, medición y modelos*. (Candela, Varela, ed.) CIMNE, 83-111.
- Castellan, G. 1983. *Physical-Chemistry*. Addison Wesley Publishing Company. 3<sup>rd</sup> edition. ISBN: 0201103869.
- Cheng, H. & Yeh, G. 1998. Development and demonstrative application of a 3-D numerical model of subsurface flow, heat transfer, and reactive chemical transport: 3DHYDROGEOCHEM. *Journal of Contaminant Hydrology*, **34**, 47-83 .
- Civan, F. 2001. Water Sensitivity and Swelling Characteristics of Petroleum-Bearing Formations: Kinetics and Correlation. *SPE Production and Operations Symposium*. Oklahoma City, USA. SPE 67293.

- Cuevas, J., Villar, M.V., Fernández, A. M., Gómez, P. & Martín, P.L. 1996. Pore waters extracted from compacted bentonite subjected to simultaneous heating and hydration. *Applied Geochemistry*, **12**, 473-481.
- Custodio, E. & Llamas, M.R. 1983. *Hidrogeología Subterránea*, Ed. Omega, Barcelona, ISBN 84-282-0446-2, 2 volúmenes.
- Crabtree, M., Eslinger, T., Fletcher, P., Johnson, A. & King, G. 1999. Fighting Scale – Removal and Prevention. *Oilfield Review*, Autumn 1999, 30-45.
- Daupley, X. 1997. *Etude du potentiel de l'eau interstitielle d'une roche argileuse et des relations entre ses propriétés hydrauliques et mécaniques*. Thèse Doctoral. Ecole Nationale des Mines de Paris.
- Delany; J.M. & Lundein, S.R. 1989. *The LLNL thermochemical database*. Lawrence Livermore National Laboratory Report UCRL-21658.
- Di Maio, C. 1996. Exposure of bentonite to salt solution: osmotic and mechanical effects. *Géotechnique*, **46**, 4, 695-707
- Di Maio, C. 1998. Exposure of bentonite to salt solution: osmotic and mechanical effects (Discussion). *Géotechnique*, **48**, 3, 433-436.
- Dixon, D.A., Graham, J. & Gray, M.N. 1999. Hydraulic conductivity of clays in confined tests under low hydraulic gradients. *Canadian Geotechnical Journal*, **36**, 815-825.
- Edlefson, N.E. & Anderson, A.B.C. 1943. Thermodynamics of soil moisture. *Hilgardia*, **15**(2e), 31-298.
- ENRESA, 1999. *Catsius Clay Project. Stage3: Validation exercises at a large "in situ" scale*. Publicación técnica número 12/99 de la Empresa Nacional de Residuos Radiactivos (ENRESA). España.
- Fam, M. & Santamarina, J.C. 1996. Coupled diffusion-fabric-flow phenomena: an effective stress analysis. *Canadian Geotechnical Journal*, **33**, 515-522.
- FEBEX, 1997a. *Caracterización geoquímica de bentonita compactada: efectos producidos por flujo termohidráulico*. Informe 70-IMA-M-0-2. CIEMAT. Madrid, España.
- FEBEX, 1997b. *Preoperational Termo-hydro-mechanical Modelling of the "In situ" Test. Version 0*. Informe 70-UPC-M-3-001. UPC-DIT. Barcelona, España.

- FEBEX, 1997c. *Preoperational Termo-hydro-mechanical Modelling of the "Mock-up" Test. Version 0.* Informe 70-UPC-M-3-002. UPC-DIT. Barcelona, España.
- FEBEX, 1999. *Termo-Hydro-Geochemical Tests on Small Cells.* Informe 70-IMA-M-0-5. CIEMAT/UAM. Madrid, España.
- FEBEX, 2000. *Full-scale engineered barriers experiment for a deep geological repository for high level radioactive waste in crystalline host rock. Final Report.* Publicación técnica 1/2000 de la Empresa Nacional de Residuos Radiactivos (ENRESA). España.
- FEBEX, 2001. *FEBEX II. Informe sobre los resultados de la modelización THM.* Informe 70-UPC-L-5-010. UPC-DIT. Barcelona, España.
- Fernández & Rivas, 1999. Comunicación personal
- Friedly, J.C. & Rubin, J. 1992. Solute transport with multiple equilibrium-controlled or kinetically-controlled chemical reactions. *Water Resour. Res.*, **28**, 1935-1953.
- Frydman, M. & Fontoura, S. 2001. Modeling Aspects of Wellbore Stability in Shales. *SPE Latin American and Caribbean Petroleum Engineering Conference.* Buenos Aires, Argentina. SPE 69529
- Fritz, S.J. & Marine, I.W. 1983. Experimental support for a predictive osmotic model of clay membranes. *Geochimica et Cosmochimica Acta*, **47**, 1515-1522.
- Garcia-Molina, A., Gens, A. & Olivella, S. 1996. Un modelo constitutivo para suelos no saturados sometidos a variaciones térmicas: formulación, implementación y aplicaciones. *III Congreso de Métodos Numéricos en Ingeniería* (Doblaré, Correas, Alarcón, Gavete, Pastor ed.), Zaragoza, España, 502- 512.
- Gawin, D., Baggio, P. & Schrefler, B.A. 1995. Coupled heat, water and gas flow in deformable porous media. *Int. J. Num. Meth. Fluids*, **20**, 967-987.
- Gens, A. & Alonso, E.E. 1992. A framework for the behaviour of unsaturated expansive soils. *Canadian Geotechnical Journal*, **29**, 1013-1032.
- Gens, A., Alonso, E.E, Lloret, A. & Batlle, F. 1993. Prediction of long term swelling of expansive soft rocks: a double-structure approach. *Geotechnical Engineering of Hard Soils – Soft Rocks* (Anagnostopoulos, Dchlosser, Kalteziotis, Frank ed.), Balkema, Rotterdam, 1: 495-500
- Gens, A. 1995. Constitutive Laws. *Modern Issues in Non-saturated Soils.* Edited by A. Gens, P. Jouanna and B.A. Schrefler. Springer – Verlag, 129-158.

- Gens, A. 1996. "Constitutive modelling: Application to compacted soils". *Unsaturated Soils*. Edited by E.E. Alonso and P. Delage. Balkema, Rotterdam. 3, 1179-1200.
- Gens, A., Garcia-Molina, A. J., Olivella, S., Alonso, E. E. & Huertas, F. 1998. Analisys of a full scale in situ test simulating repository conditions. *Int. J. for Num. and An. Methods in Geomechanics*, **22**, 515-548.
- van Genuchten, R. 1980. A closed-form equation for predicting the hydraulic conductivity of unsaturated soils. *Soil Sci. Soc. Am. J.*, 892-898.
- Greenberg, P. & Møller, N. 1989. The prediction of mineral solubilities in natural waters: the Na-K-Ca-Cl-SO<sub>4</sub>-H<sub>2</sub>O system to high concentration from 0 to 250°C. *Geochimica et Cosmochimica Acta*, **53**, 2503-2518.
- Harvie, C. & Weare, J. 1980. The prediction of mineral solubilities in natural waters: the Na-K-Mg-Ca-Cl-SO<sub>4</sub>-H<sub>2</sub>O system from zero to high concentration at 25°C. *Geochimica et Cosmochimica Acta*, **44**, 981-997.
- Harvie, C.E., Møller, N. & Weare, J.H. 1984. The prediction of mineral solubilities in natural waters: The Na-K-Mg-Ca-H-Cl-SO<sub>4</sub>-OH-HCO<sub>3</sub>-CO<sub>3</sub>-CO<sub>2</sub>-H<sub>2</sub>O system to high ionic strengths at 25°C. *Geochimica et Cosmochimica Acta*, **48**, 723-751.
- Harvie, C., Greenberg, J. & Weare, J. 1987. A chemical equilibrium algorithm for highly non-ideal multiphase systems: Free energy minimization. *Geochimica et Cosmochimica Acta*, **51**, 1045-1057.
- Helgeson, H.C. 1969. Thermodynamics of hydrothermal systems at elevated temperatures and pressures. *American Journal of Science*, **267**, 729-804.
- Helgeson, H.C. & Kirkham, D. H. 1974. Theoretical prediction of the thermodinamic behavior of aqueous electrolytes at high pressures and temperatures: II. Debye-Hückel parameters for activity coefficients and relative partial-molal properties. *American Journal of Science*, **274**, 1199-1261.
- Huyakorn, P.S. & Pinder, G.F. 1983. *Computational Methods in Subsurface Flow*, Academic Press, Inc. Orlando, Florida.
- Karnland, O. 1997. Bentonite swelling pressure in strong NaCl solutions. Correlation between model calculations and experimentally determined data. Technical report 97-31. Swedish Nuclear Fuel and Waste Management CO – SKB. Clay Technology, Lund, Sweden.

- Keijzer, Th. J.S. & Loch, J.P.G. 2001. Chemical osmosis in compacted dredging sludge. *Soil Sci. Soc. Am. J.*, **65**, 1045-1055.
- Kirkner, D. & Reeves, H. 1988. Multicomponent mass transport with homogeneous and heterogeneous chemical reactions: Effect of the chemistry on the choice of numerical algorithm. 1. Theory. *Water Resour. Res.*, **24**, 1719-1729.
- Komine, H. & Ogata, N. 1995. Prediction for swelling characteristics of compacted bentonite. *Canadian Geotechnical Journal*, **33**, 11-22
- Lichtner, P. 1985. Continuum model for simultaneous chemical reactions and mass transport in hydrothermal systems. *Geochimica et Cosmochimica Acta*, **49**, 779-800.
- Lichtner, P. 1996. Continuum formulation of multicomponent-multiphase reactive transport. *Reviews in Mineralogy*, **34**, 1-81.
- López Marinas, J. M. 2000. *Geología Aplicada a la Ingeniería Civil*. Cie Inversiones Editoriales Dossat 2000, 556 pp. ISBN: 84-95312-33-6.
- Madsen, F. & Müller-VonMoos, M. 1989. The swelling behaviour of clays. *Applied Clay Science*, **4**, 143-156.
- Marcial, D., Delage, P. & Cui, Y.J. 2001. Effect of exchangeable cations on the compressibility of bentonite clays. *International Workshop. Clay behaviour: Chemo-mechanical coupling*. Maratea, Italy.
- de Marsily, G. 1986. *Quantitative Hydrogeology*. Academic Press, Inc. ISBN 0-12-208916-2.
- Marine, I.W. & Fritz, S.J. 1981. Osmotic model to explain anomalous hydraulic heads. *Water Resources Research*, **17**, 1, 73-82.
- Martín, M., Cuevas, J. & Leguey, S. 2000. Difusión de solubles saltas under a temperature gradient after the hydration of compacted bentonite. *Applied Clay Science*, **17**, 55-70.
- Mesri, G. & Olsen, R. 1970. Shear strength of montmorillonite. *Geotechnique*, **20**, 3, 261-270.
- Mesri, G. & Olsen, R. 1971. Consolidation characteristics of montmorillonite. *Geotechnique*, **21**, 4, 341-352.
- Mitchell, J.K. 1991. Conduction phenomena: from theory to geotechnical practice. *Géotechnique*, **41**, 3, 299-340

- Mitchell, J.K. 1993. *Fundamentals of soil behavior*. 2<sup>nd</sup> ed. John Wiley & Sons, 437 pp.
- Molenaar, M. & Huyghe, M. 2001. An electro-chemo-mechanical mixture formulation for shale. *International Workshop. Clay behaviour: Chemo-mehanical coupling*. Maratea, Italy.
- Møller, N. 1988. The prediction of mineral solubilities in natural waters: A chemical equilibrium model for the Na-Ca-Cl-SO<sub>4</sub>-HO<sub>2</sub> system, to high temperature and concentration. *Geochimica et Cosmochimica Acta*, **52**, 821-837.
- Moore, R. 1991. The chemical and mineralogical controls upon the residual strength of pure and natural clays. *Geotechnique*, **41**, 1, 35-47.
- Navarro, V. 1997. *Modelo del comportamiento mecánico e hidráulico de suelos no saturados en condiciones no isotermas*. Tesis doctoral, Departamento de Ingeniería del Terreno y Cartográfica, Universidad Politécnica de Cataluña, Barcelona, España.
- Navarro, V. & Alonso, E.E. 2000. Modeling swelling soils for disposal barriers. *Computers and Geotechnics*, **27**, 19-43.
- Nind, T.E.W. 1989. *Hydrocarbon Reservoir and Well Performance*. Chapman and Hall, 368 pp. ISBN: 0412340305.
- Nordstrom, D.K. & Munoz, J.L. 1994. *Geochemical Thermodynamics*. Blackwell Scientific Publications. Second Edition. 493 pp.
- Olivella, S., Carrera, J., Gens, A. & Alonso, E. E. 1994. Nonisothermal multiphase flow of brine and gas through saline media. *Transport in Porous Media*, **15**, 271-293.
- Olivella, S. 1995. *Nonisothermal Multiphase Flow of Brine and Gas Through Saline Media*. PhD thesis. Departamento de Ingeniería del Terreno, Universidad Politécnica de Cataluña, Barcelona, España.
- Olivella, S., Gens, A., Carrera, J. & Alonso, E. E. 1995. Numerical formulation for a simulator (CODE\_BRIGHT) for the coupled analysis of saline media. *Engineering Computations*, **13**, 87-112.
- Osborne, C.G., Ravenscroft, P.D. & McCracken, I.R. 1994, Predicted water chemistry trends in North Sea formation brines. *Marine and Petroleum Geology*, **11**, 1, 20-23.
- Parkhurst, D.L. & Apello, C.A.J. 1999. *User's guide to PHREEQC (version 2) – A computer program for speciation, batch-reaction, one-dimensional transport and inverse*

- geochemical calculations.* Water-Resources Invertigations Report 99-4259. U. S. Geological Survey.
- Pitzer, K.S. 1991. *Activity coefficients in electrolyte solutions* 2<sup>nd</sup> Edition. CRC Press. ISBN 0-8493-5415-3.
- Pollock, D. W. 1986. Simulation of fluid flow and energy transport processes associated with high-level radioactive waste disposal in unsaturated alluvium. *Water Resources Research*, **22**, 5, 765-775.
- Pusch, R. 1982. Mineral-water interactions and their influence on the physical behaviour of highly compacted Na bentonite. *Canadian Geotechnical Journal*, **19**, 381-387.
- Reed, M. 1982. Calculation of multicomponent chemical equilibria and reaction processes in systems involving minerals, gases and an aqueous phase. *Geochimica et Cosmochimica Acta*, **46**, 513-528.
- Rosset, J. 1974. *Física General*. Ed. AC, Madrid, ISBN 84-7288-006-0, 805 pp.
- Rubin, J. 1983. Transport of reacting solutes in porous media: Relation between mathematical nature of problem formulation and chemical nature of reactions. *Water Resour. Res.*, **19**, 1231-1252.
- Roscoe, K.H. & Burland, J.B. 1968. On the generalized stress-strain behaviour of the 'wet' clay. In: Heyman, J., Leckie, F.A. (Eds), *Engineering Plasticity*. Cambridge University Press, Cambridge, pp. 535-609.
- Saaltink, M., Ayora, C. & Carrera, J. 1998. A mathematical formulation for reactive transport that eliminates mineral concentrations. *Water Resour. Res.*, **34**, 1649-1656.
- Saaltink, M.W., Carrera, J. & Ayora, C. 2001. On the behavior of approaches to simulate reactive transport. *Journal of Contaminant Hydrology*, **48**, 213-235.
- Salas, J. & Serratosa, J. 1953. Compressibility of Clays. *Proc. Third Int. Conf. Soil Mech. Fdn. Engng.*, **1**, 192-198. Zurich.
- Samper, J. & Ayora, C. 1993. Acoplamiento de modelos de transporte de solutos y de modelos de reacciones químicas. *Estudios Geol.*, **49**, 233-251.
- Samper, J., Ayora, C. & Xu, T. 1995a. *TRANQUI: User's Manual*. ENRESA. Madrid, España.

- Samper, J., Xu, T., Ayora, C. & Cuéllar, N. 1995b. Reactive solute transport modelling: numerical formulation and computer codes. *VI Simposio de Hidrogeología*. Sevilla, España, 785-799.
- Sánchez, M. 2001. *Análisis Termo-Hidro-Mecánicos acoplados en medios de baja permeabilidad*. Tesis Doctoral. En preparación. Departamento de Ingeniería del Terreno, Universidad Politécnica de Cataluña, Barcelona, España.
- Sánchez, M., Gens, A., Guimaraes, L. do N. & Olivella, S. 2001. Generalized plasticity model for THM simulations involving expansive clays. Submitted to *International Workshop on Key Issues in Waste Isolation Research*, Paris.
- Santamarina, J.C. & Fam, M. 1995. Changes in dielectric permittivity and shear wave velocity during concentration diffusion. *Can. Geotech. J.*, **32**, 647-659.
- Santos, H. & Perez, R. 2001. What have we been doing wrong in wellbore stability? *SPE Latin American and Caribbean Petroleum Engineering Conference*. Buenos Aires, Argentina. SPE 69493.
- Schrefler, B.A. 1995. F. E. in environmental engineering: coupled thermo-hydro-mechanical processes in porous media including pollutant transport. *7th European Autumn School: Non linear modelling of geomaterials with the finite element method*. Aussois, France.
- Soler, J.M. & Jakob, A. 1997. *Formulation of a solute transport equation includin the effects of coupled phenomena*. Paul Scherrer Institut TM 44-97-09.
- Soler, J.M. 1998. *Simple one-dimensional transport simulations including thermal and chemical osmosis, hyperfiltration, and thermal diffusion*. Paul Scherrer Institut TM 44-98-04.
- Sorbie, K.S. & Mackay, E.J. 2000. Mixing of injected, connate and aquifer brines in waterflooding and its relevance to oilfield scaling. *Journal of Petroleum Science & Engineering*, **27**, 85-106.
- Sposito, G. 1989. *The Chemistry of Soils*, Oxford University Press, New York, 277 pp.
- Sprackling, M.T. 1985. *Liquids and Solids*, Student Physics Series, King's College, University of London, Routledge and Kegan Paul, London.
- Sridharan, A., Rao, S. & Murthy, N. 1986. Compressibility behaviour of homoionized bentonites. *Geotechnique*, **36**, 4, 551-564.

- Steefel, C. & Lasaga, A. 1994. A coupled model for transport of multiple chemical species and kinetic precipitation/dissolution reactions with application to reactive flow in single phase hydrothermal systems. *American Journal of Science*, **294**, 529-592.
- Steefel, C. & McQuarrie, K. 1996. Approaches to modelling of reactive transport in porous media. *Reviews in Mineralogy*, **34**, 83-129.
- Thomas, H.R. & He, Y. 1995. An analysis of coupled heat, moisture and air transfer in a deformable unsaturated soil, *Géotechnique*, **45**, 667-689.
- Thomas, H.R. & Cleall, P. J. 1999. Inclusion of expansive clay behaviour in coupled thermo hydraulic mechanical model. *Engineering Geology*, **54**, 93-108.
- Warkentin, B.P., Bolt, G.M. & Miller, R.D. 1957. Swelling pressure of montmorillonite. *Soil Science Soc. of America*, **21**: 495-497.
- White, T. 1995. Multiphase nonisothermal transport of systems of reacting chemicals. *Water Resour. Res.*, **31**, 1761-1772.
- Wilson, R. & Aifantis, E. 1982. On the theory of consolidation with double porosity. *Int. J. Engrg. Sci.*, **20**, 1009-1035.
- Wolery, T.J. 1992. *EQ3NR, A Computer Program for Geochemical Aqueous Speciation-Solubility Calculations: Theoretical Manual, User's Guide, and Related Documentation (Version 7.0)*. Publicación UCRL-MA-1010662 PT III de Lawrence Livermore National Laboratory (LLNL). USA.
- Wood, J.R. 1976. Thermodynamics of brine-salt-equilibria-II. The system NaCl-KCl-H<sub>2</sub>O from 0 to 200° C. *Geochimica et Cosmochimica Acta*, **40**, 1211-1220.
- Xu, T., Ayora, C. & Samper, J. 1995. Reactive solute transport modelling: one dimensional examples. *VI Simposio de Hidrogeología*. Sevilla, España, 801-812.
- Xu, T., Samper, J., Ayora, C., Manzano, M. and Custodio, E. 1999. Modeling of non-isothermal multi-component reactive transport in field scale porous media flow systems. *Journal of Hydrology*, **214**, 144-164.
- Yeh, G. & Tripathi, V. 1989. A critical evaluation of recent developments in hydrogeochemical transport models of reactive multichemical components. *Water Resour. Res.*, **25**, 93-108.
- Yeh, G. and Tripathi, V. 1991. A model for simulating transport of reactive multispecies components: Model development and demonstration. *Water Resour. Res.*, **27**, 3075-3094.

- Yeung, A.T. & Mitchell, J.K. 1993. Coupled fluid, electrical and chemical flows in soil. *Géotechnique*, **43**, 1, 121-134.
- Yong, R.N., Mohamed, A.M.O. & Warkentin, B.P. 1992. *Principles of contaminant transport in soils*. Development in Geotechnical Engineering, 73, Elsevier Scientific Publishing Co., Amsterdam, 327 pp.
- Yong, R.N. 1998. On soil suction and soil-water potentials in swelling clays in engineered clay barriers. *Workshop on Microstructural Modelling of Natural an Artificially Prepared Clay Soils with Special Emphasis on the Use of Clays for Waste Isolation*. Lund, Sweden.
- Yuan, M.D. & Todd, A.C. 1991. Prediction of sulfate scaling tendency in oilfield operations. *SPE Production Engineering*, **6**, 63-72.
- Yuan, M., Todd, A.C. & Sorbie, K.S. 1994. Sulphate scale precipitation arising from seawater injection: a prediction study. *Marine and Petroleum Geology* **11**, 1, 24-30.